

=> fil reg  
FILE 'REGISTRY' ENTERED AT 16:25:26 ON 24 MAY 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAY 2004 HIGHEST RN 685087-62-1  
DICTIONARY FILE UPDATES: 23 MAY 2004 HIGHEST RN 685087-62-1

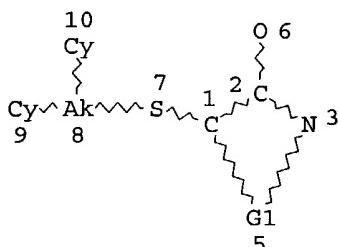
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que 19  
L5 STR



REP G1=(1-4) C  
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE  
L7 10 SEA FILE=REGISTRY SSS FUL L5  
L8 4 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND (C20H21NO4S OR  
C40H30N2O2S OR C19H19NO4S OR C20H21NO4S)  
L9 6 SEA FILE=REGISTRY ABB=ON PLU=ON L7 NOT L8

=> d his

(FILE 'HOME' ENTERED AT 16:19:36 ON 24 MAY 2004)  
SET COST OFF

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L3 STR L1  
L4 1 S L3

L5 STR L3  
 L6 1 S L5  
 L7 10 S L5 FUL  
     SAV L7 ZINNA716/A  
 L8 4 S L7 AND (C20H21NO4S OR C40H30N2O2S OR C19H19NO4S OR C20H21NO4S  
 L9 6 S L7 NOT L8

FILE 'HCAPLUS' ENTERED AT 16:24:28 ON 24 MAY 2004

L10 1 S L9  
 L11 3 S L8  
 L12 1 S L11 AND L10  
 L13 2 S L11 NOT L12

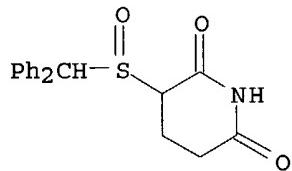
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L14 2 S L9  
 L15 2 S L8  
 L16 2 S L14 AND L15

FILE 'REGISTRY' ENTERED AT 16:25:26 ON 24 MAY 2004

=> d ide can tot 19

L9 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-08-8 REGISTRY  
 CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C18 H17 N O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

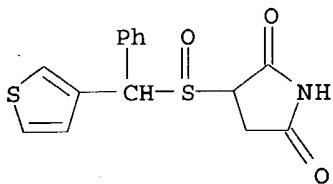


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-07-7 REGISTRY  
 CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C15 H13 N O3 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

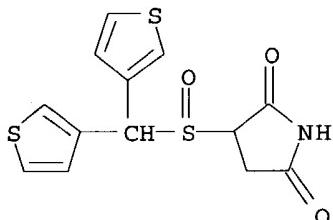


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-06-6 REGISTRY  
 CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C13 H11 N O3 S3  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

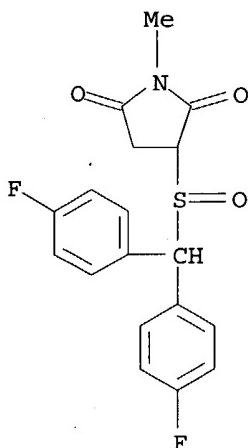


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-05-5 REGISTRY  
 CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C18 H15 F2 N O3 S  
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 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

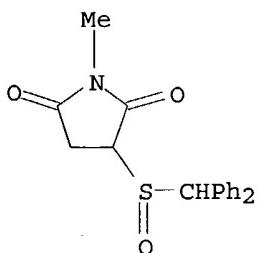


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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-01-1 REGISTRY  
 CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
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 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



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1 REFERENCES IN FILE CA (1907 TO DATE)  
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REFERENCE 1: 138:14055

L9 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN  
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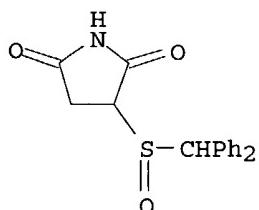
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LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

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L8 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-04-4 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H21 N O4 S

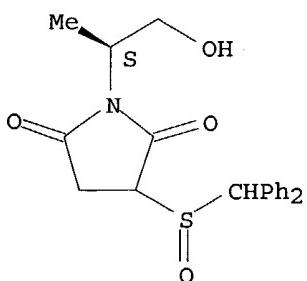
SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



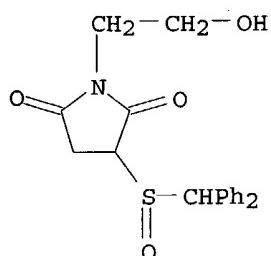
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-03-3 REGISTRY  
 CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)-  
     (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C19 H19 N O4 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA CAplus document type: Patent  
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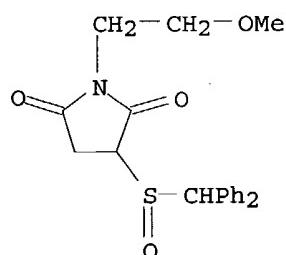


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
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REFERENCE 1: 138:14055

L8 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 477728-02-2 REGISTRY  
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     (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C20 H21 N O4 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA CAplus document type: Patent  
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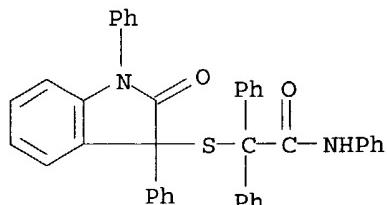


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 35133-13-2 REGISTRY  
 CN Benzeneacetamide,  $\alpha$ -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thiol]-N, $\alpha$ -diphenyl- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2,3-Dihydro-1,3-diphenyl-2-oxoindol-3-yl diphenyl(phenylcarbamoyl)methyl sulfide  
 MF C40 H30 N2 O2 S  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
     (\*File contains numerically searchable property data)  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 78:16153

REFERENCE 2: 76:51215

=> fil uspatall  
 FILE 'USPATFULL' ENTERED AT 16:25:42 ON 24 MAY 2004  
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 16:25:42 ON 24 MAY 2004  
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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L16 ANSWER 1 OF 2 USPATFULL on STN  
 AN 2002:323168 USPATFULL  
 TI Substituted thioacetamides  
 IN Bacon, Edward R., Audubon, PA, UNITED STATES  
     Chatterjee, Sankar, Wynnewood, PA, UNITED STATES  
     Dunn, Derek, Coatesville, PA, UNITED STATES  
     Mallamo, John P., Glenmoore, PA, UNITED STATES  
     Miller, Matthew S., Newtown, PA, UNITED STATES  
     Tripathy, Rabindranath, Landenberg, PA, UNITED STATES  
     Vaught, Jeffry L., Glenmoore, PA, UNITED STATES  
 PI US 2002183334 A1 20021205  
     US 6670358 B2 20031230  
 AI US 2001-14645 A1 20011026 (10)  
 RLI Continuation-in-part of Ser. No. US 2001-855228, filed on 15 May 2001,  
     PENDING  
 PRAI US 2000-204789P 20000516 (60)  
     US 2001-268283P 20010213 (60)  
 DT Utility

## FS APPLICATION

LREP Robert T. Hrubiec, Cephalon, Inc., 145 Brandywine Parkway, West Chester,  
PA, 19380

CLMN Number of Claims: 45

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 3556

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

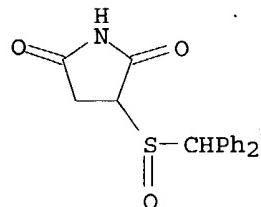
AB The present invention is directed to chemical compositions of substituted thioacetamides, processes for the preparation thereof and uses of the compositions in the treatment of diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 477728-00-0P 477728-01-1P 477728-02-2P  
477728-03-3P 477728-04-4P 477728-05-5P  
477728-06-6P 477728-07-7P 477728-08-8P  
(preparation of substituted thioacetamides for treatment of sleep disorders)

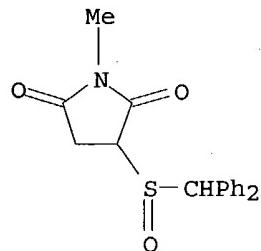
RN 477728-00-0 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



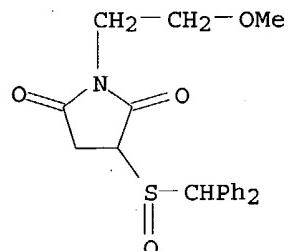
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CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)

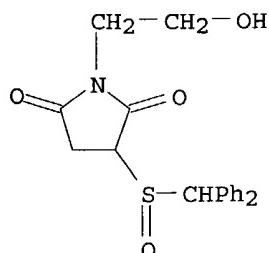


RN 477728-02-2 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



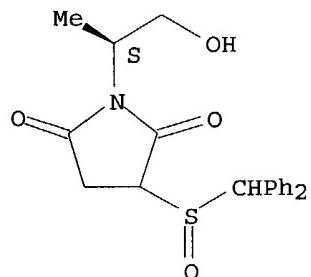
RN 477728-03-3 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)-  
(9CI) (CA INDEX NAME)

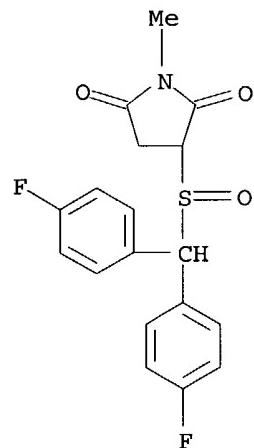
RN 477728-04-4 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

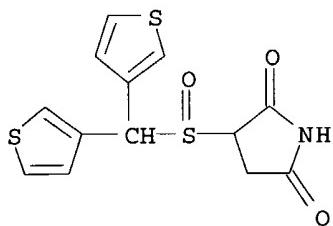


RN 477728-05-5 USPATFULL

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(9CI) (CA INDEX NAME)

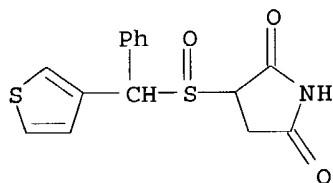
RN 477728-06-6 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX  
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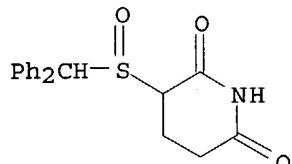
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CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 477728-08-8 USPATFULL

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



L16 ANSWER 2 OF 2 USPAT2 on STN

AN 2002:323168 USPAT2

TI Substituted thioacetamides

IN Bacon, Edward R., Audubon, PA, United States

Chatterjee, Sankar, Wynnewood, PA, United States

Dunn, Derek, Coatesville, PA, United States

Mallamo, John P., Glenmoore, PA, United States

Miller, Matthew S., Newtown, PA, United States

Tripathy, Rabindranath, Landenberg, PA, United States

Vaught, Jeffry L., Glenmoore, PA, United States

PA Cephalon, Inc., West Chester, PA, United States (U.S. corporation)

PI US 6670358 B2 20031230

AI US 2001-14645 20011026 (10)

RLI Continuation-in-part of Ser. No. US 2001-855228, filed on 15 May 2001, now patented, Pat. No. US 6492396

PRAI US 2000-204789P 20000516 (60)

US 2001-268283P 20010213 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Davis, Zinna Northington

LREP Hrubiec, Robert T., Voelk, Eric K.

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 3166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

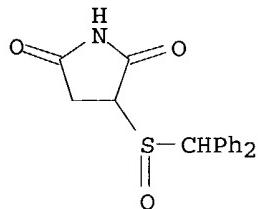
AB The present invention is directed to chemical compositions of substituted thioacetamides, processes for the preparation thereof and uses of the compositions in the treatment of diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 477728-00-0P 477728-01-1P 477728-02-2P  
 477728-03-3P 477728-04-4P 477728-05-5P  
 477728-06-6P 477728-07-7P 477728-08-8P  
 (preparation of substituted thioacetamides for treatment of sleep disorders)

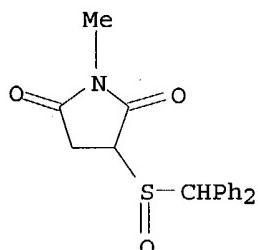
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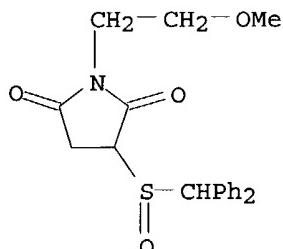
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CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)



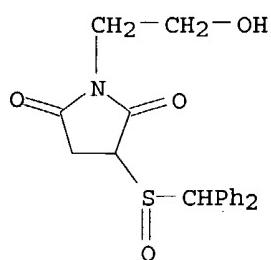
RN 477728-02-2 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



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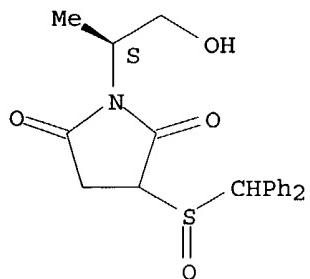
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



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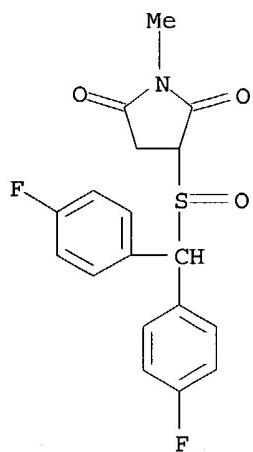
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



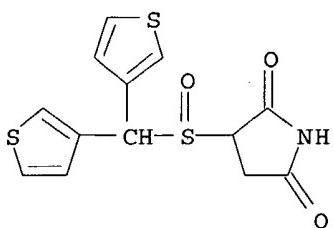
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CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)



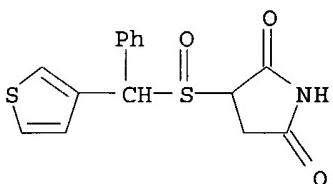
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CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



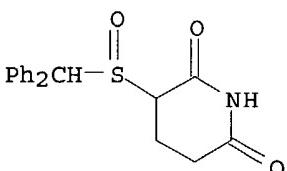
RN 477728-07-7 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 477728-08-8 USPAT2

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



=&gt; fil hcaplus

FILE 'HCAPLUS' ENTERED AT 16:25:57 ON 24 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 24 May 2004 VOL 140 ISS 22

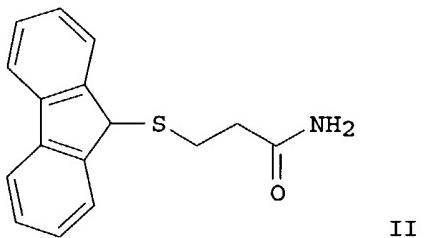
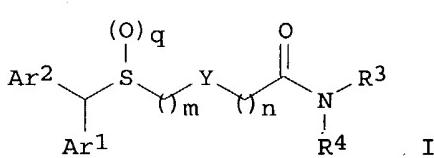
FILE LAST UPDATED: 23 May 2004 (20040523/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 112 all hitstr

L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:928245 HCAPLUS  
 DN 138:14055  
 ED Entered STN: 06 Dec 2002  
 TI Preparation of substituted thioacetamides for treatment of sleep disorders  
 IN Bacon, Edward R.; Chatterjee, Sankar; Dunn, Derek; Mallamo, John P.;  
 Miller, Matthew S.; Tripathy, Rabindranath; Vaught, Jeffry L.  
 PA Cephalon, Inc., USA  
 SO U.S. Pat. Appl. Publ., 52 pp., Cont.-in-part of U.S. Ser. No. 855,228.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM A61K031-505  
 ICS A61K031-277; C07C317-26  
 NCL 514256000; 514385000; 514521000; 514599000; 514539000; 514618000;  
 544242000; 548354100; 558413000; 564162000  
 CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 1, 23, 63  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002183334	A1	20021205	US 2001-14645	20011026
	US 6670358	B2	20031230		
	US 2002045629	A1	20020418	US 2001-855228	20010515
	US 6492396	B2	20021210		
	WO 2003037853	A1	20030508	WO 2002-US34188	20021025
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PRAI	US 2000-204789P	P	20000516		
	US 2001-268283P	P	20010213		
	US 2001-855228	A2	20010515		
	US 2001-14645	A	20011026		
OS	MARPAT	138:14055			
GI					



AB Title compds. I [Ar1-2 = (hetero)aryl; Y = alkylene, alkyl, (hetero)arylene, cycloalkylene, O, SOO-2, etc.; R3-4 = H, alkyl, OH, etc.;

m, n = 0-3; q = 0-2] were prepared. For instance, thiourea and 9-hydroxyfluorene were reacted (HBrAg, 100-105°, 30 min) to afford the corresponding thiouronium salt. This was treated with NaOHaq and 3-bromopropionic acid to afford the sulfide-carboxylic acid and subsequently treated with SOCl<sub>2</sub>/NH<sub>4</sub>OH to give II. Selected example compds. possessed wake-promoting activity (rats). I are useful in the treatment of sleep disorders, Parkinson's disease, etc.

- ST thioacetamide sleep amide sulfide prepn  
 IT Mental disorder  
     (attention deficit hyperactivity disorder; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Brain  
     (cerebral cortex, hypofunctionality, disorders associated with; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Fatigue, biological  
     (chronic fatigue syndrome; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Mental disorder  
     (cognitive; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Mental disorder  
     (depression; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Appetite  
 Cognition  
     (disorder; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Brain, disease  
     (ischemia; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Antidepressants  
 Antiparkinsonian agents  
 Fatigue, biological  
 Human  
 Parkinson's disease  
 Schizophrenia  
     (preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Apnea  
     (sleep apnea; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Mental activity  
     (sleepiness; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Brain, disease  
     (stroke; preparation of substituted thioacetamides for treatment of sleep disorders)  
 IT Body weight  
     (weight gain; preparation of substituted thioacetamides for treatment of sleep disorders)
- |    |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|
| IT | 374722-01-7P | 374722-02-8P | 374722-05-1P | 374722-06-2P | 374722-07-3P |
|    | 374722-08-4P | 374722-09-5P | 374722-13-1P | 374722-14-2P |              |
- RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
- (preparation of substituted thioacetamides for treatment of sleep disorders)
- |    |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|
| IT | 374721-09-2P | 374721-10-5P | 374721-11-6P | 374721-12-7P | 374721-13-8P |
|    | 374721-14-9P | 374721-15-0P | 374721-16-1P | 374721-17-2P | 374721-18-3P |
|    | 374721-19-4P | 374721-20-7P | 374721-21-8P | 374721-22-9P | 374721-23-0P |
|    | 374721-24-1P | 374721-25-2P | 374721-26-3P | 374721-27-4P | 374721-28-5P |
|    | 374721-29-6P | 374721-30-9P | 374721-31-0P | 374721-33-2P | 374721-35-4P |
|    | 374721-36-5P | 374721-37-6P | 374721-38-7P | 374721-39-8P | 374721-40-1P |

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 374721-46-7P 374721-47-8P 374721-48-9P 374721-49-0P 374721-50-3P  
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 374721-80-9P 374721-82-1P 374721-83-2P 374721-84-3P 374721-85-4P  
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**477728-03-3P 477728-04-4P 477728-05-5P**  
**477728-06-6P 477728-07-7P 477728-08-8P**  
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 477733-03-2P 477733-04-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

IT (preparation of substituted thioacetamides for treatment of sleep disorders)  
 62-56-6, Thiourea, reactions 79-11-8, Chloroacetic acid, reactions 100-52-7, Benzaldehyde, reactions 107-10-8, n-Propylamine, reactions 108-31-6, Maleic anhydride, reactions 109-85-3, 2-Methoxyethylamine 110-91-8, Morpholine, reactions 131-11-3, Dimethylphthalate 498-62-4, 3-Thiophenecarboxaldehyde 541-59-3, Maleimide 590-92-1, 3-Bromopropionic acid 872-31-1, 3-Bromothiophene 879-52-7 930-88-1, N-Methylmaleimide 1131-62-0 1210-34-0, Dibenzosuberol 1689-64-1, 9-Hydroxyfluorene 2365-48-2, Methyl thioglycolate 2623-87-2, 4-Bromobutyric acid 2749-11-3, (S)-2-Aminopropanol 7324-05-2, (L)-Alanineamide 62595-74-8 77868-83-8, 3-Bromo-1-phenylpyrrolidin-2-one 374721-98-9 477728-24-8

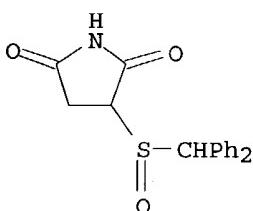
RL: RCT (Reactant); RACT (Reactant or reagent)

IT (preparation of substituted thioacetamides for treatment of sleep disorders)  
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 93001-83-3P 222626-23-5P 222626-25-7P 374721-95-6P 374721-96-7P  
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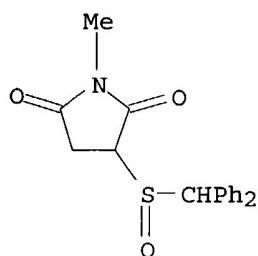
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

IT (preparation of substituted thioacetamides for treatment of sleep disorders)  
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**477728-03-3P 477728-04-4P 477728-05-5P**  
**477728-06-6P 477728-07-7P 477728-08-8P**  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

RN (preparation of substituted thioacetamides for treatment of sleep disorders)  
 RN 477728-00-0 HCPLUS  
 CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

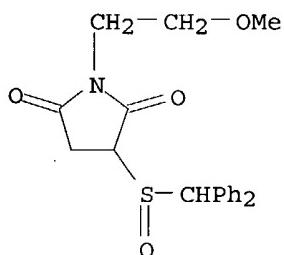


CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)



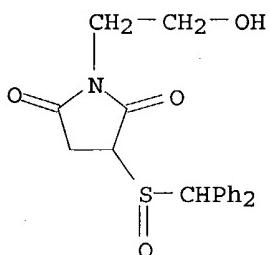
RN 477728-02-2 HCPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



RN 477728-03-3 HCPLUS

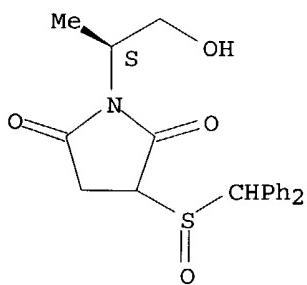
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



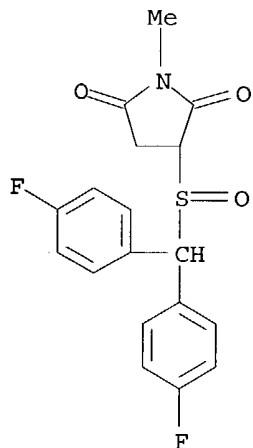
RN 477728-04-4 HCPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

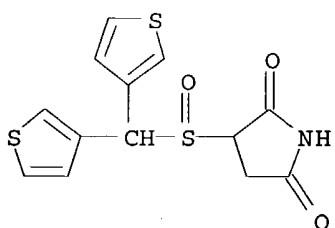
Absolute stereochemistry.



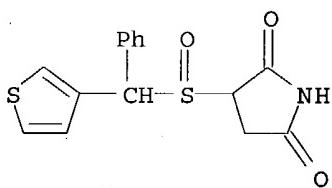
RN 477728-05-5 HCPLUS  
 CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl-  
 (9CI) (CA INDEX NAME)



RN 477728-06-6 HCPLUS  
 CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX  
 NAME)

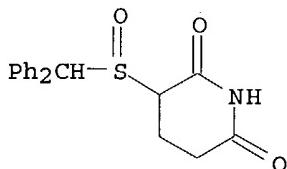


RN 477728-07-7 HCPLUS  
 CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA  
 INDEX NAME)



RN 477728-08-8 HCAPLUS

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



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L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1973:16153 HCAPLUS

DN 78:16153

ED Entered STN: 12 May 1984

TI Reactions of sulfur diimides with ketenes

AU Minami, Toru; Yamataka, Kazunori; Ohshiro, Yoshiki; Agawa, Toshio; Yasuoka, Noritake; Kasai, Nobutami

CS Fac. Eng., Osaka Univ., Suita, Japan

SO Journal of Organic Chemistry (1972), 37(24), 3810-18

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

CC 28-24 (Heterocyclic Compounds (More Than One Hetero Atom))

OS CASREACT 78:16153

AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. The reaction products of sulfur diimides with  $\text{Ph}_2\text{C:CO}$  are temperature-dependent. The reaction of  $(\text{PhN:})_2\text{S}$  with  $\text{Ph}_2\text{C:CO}$  at  $6 - 8^\circ$  gave the 1:2-cycloadduct, 2,3,4,6,7-pentahydro-2,4,4,7-tetr phenyl-3-oxo-1,-5,2,7-thiaoxadiazepin-6-ylidene diphenyl methane (I) and at  $80^\circ$  the 1:1-cycloadduct 2,4,4,5-tetr phenyl-1,2,5-thiadiazolidin-3-one (II). Refluxing I in  $\text{C}_6\text{H}_6$  led to II and  $\text{Ph}_2\text{C:CO} \cdot (\text{Me}_3\text{CN:})_2\text{S}$  and  $\text{Ph}_2\text{C:CO}$  at  $0 - 2^\circ$  gave a 1,2-cycloadduct, 4,4-diphenyl-1-t-butylimino-2-t-butyl-1,2-thiazetidin-3-one which readily underwent a rearrangement to 4,4-diphenyl-2,5-di-t-butyl-1,2,5-thiadiazolidin-3-one. The reaction of sulfur diimides with alkylketenes gave no 1,2- or 1,3-cycloadducts but the thiobisamine derivs. or their hydrolysis products. The reaction between  $(\text{PhN:})_2\text{S}$  and  $\text{Me}_2\text{C:CO}$  gave rise to 2-phenylimino-3,3-dimethyl-1H-2,1-benzothiazine-4(3H)-one in addition to N,N'-diphenyl,-N-(2-methylpropenoyl),-N'-isobutanoyl thiobisamine.

ST thiaoxadiazepine; thiadiazolidinone; thiazetidinone; cycloaddn ketene sulfur diimide; amine thiobis; thiobisamine

IT 2056-74-8 3839-89-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(adduct of, with ketene)

IT 525-06-4 598-26-5 20452-67-9 22589-13-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(adduct of; with sulfur diimide)

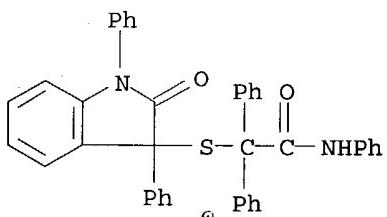
IT 1611-83-2P 2719-26-8P 4406-41-1P 6554-73-0P 7472-49-3P  
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 32119-42-9P 35133-13-2P 36138-85-9P 36138-86-0P  
 36138-87-1P 36138-88-2P 36146-78-8P 36146-81-3P 36146-93-7P  
 36146-94-8P 36146-96-0P 36146-97-1P 36146-98-2P 36147-00-9P  
 36147-01-0P 36147-03-2P 36147-04-3P 36147-05-4P 36147-06-5P  
 36147-10-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

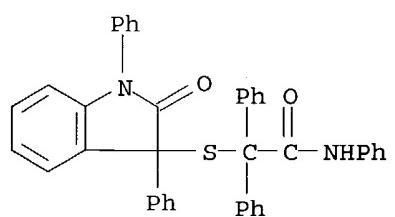
IT 35133-13-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 35133-13-2 HCPLUS

CN Benzeneacetamide,  $\alpha$ -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thio]-N, $\alpha$ -diphenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 1972:51215 HCPLUS  
 DN 76:51215  
 ED Entered STN: 12 May 1984  
 TI Molecular structure of one of the 1:2 adducts from diphenylsulfur diimide and diphenylketene  
 AU Kai, Yasushi; Yasuoka, Noritake; Kasai, Nobutami; Minami, Toru; Yamataka, Kazunori; Ohshiro, Yoshiki; Agawa, Toshio  
 CS Dep. Appl. Chem., Osaka Univ., Osaka, Japan  
 SO Journal of the Chemical Society [Section] D: Chemical Communications (1971), (23), 1532  
 CODEN: CCJDAO; ISSN: 0577-6171  
 DT Journal  
 LA English  
 CC 70 (Crystallization and Crystal Structure)  
 AB X-ray anal. of the title adduct showed it to be 2,3-dihydro-1,3-diphenyl-2-oxoindol-3-yl diphenyl(phenylcarbamoyl)methyl sulfide; crystals were monoclinic, with space group P21/a, a 22.206, b 11.907, c 12.027 Å,  $\beta$  100.50°, d. (exptl.) 1.26, d. (calculated) 1.28, Z=4, and R 0.056 for 3030 reflections.  
 ST ketenes adduct diphenylsulfur diimide; indolyl methyl sulfide crystal structure; sulfur diimide diphenyl ketenes  
 IT Crystal structure  
 Molecular structure  
 (of dihydronaphthalenyl diphenyl(phenylcarbamoyl)methyl sulfide)  
 IT 35133-13-2  
 RL: PRP (Properties)  
 (crystal structure of)  
 IT 35133-13-2  
 RL: PRP (Properties)  
 (crystal structure of)  
 RN 35133-13-2 HCPLUS  
 CN Benzeneacetamide,  $\alpha$ -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thio]-N, $\alpha$ -diphenyl- (9CI) (CA INDEX NAME)



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Office Microsoft

eDAN Version 1.3.1 - ZINNA DAVIS (65429) Art Unit: 1625 - Applications for inventor: BACON, EDWARD

File Edit View Preferences Tools Messaging Window Help

Application #:

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
101	09/425289		041	10/26/1998	BACON, EDWARD	EMBOBLUS THERAPY USING INSOLUBLE MICROPARTICLES OR VESICLES CONTAINING CONTRAST AGENTS
	09/429346		161	10/28/1999	BACON, EDWARD	LIGHT IMAGING CONTRAST AGENTS
	09/429347	6350431	150	10/28/1999	BACON, EDWARD	COMPOUNDS
	09/443345		161	11/18/1999	BACON, EDWARD	CONTRAST MEDIA FOR IMAGING OF LUNG DRAINING LYMPH NODES, ADMINISTERED THROUGH THE LUNGS
	09/577441	6596097	150	05/24/2000	BACON, EDWARD	METHOD OF COATING A METAL SUBSTRATE WITH A RADIOACTIVE LAYER
	09/585938		161	06/02/2000	BACON, EDWARD	Enhanced radiation therapy
	09/589091		161	06/08/2000	BACON, EDWARD	Compositions
	09/732917	6540981	150	12/11/2000	BACON, EDWARD	LIGHT IMAGING CONTRAST AGENTS
	09/831229	6689043	150	07/23/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
	09/855228	6492396	150	05/15/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	09/860011	6632176	150	05/17/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
2	10/009576		041	08/27/2002	BACON, EDWARD	Iodine-containing radioactive sources
	10/014645	6670358	150	10/26/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	10/067545		160	02/07/2002	BACON, EDWARD	Contrast media

Docket: ZINNA DAVIS - 05/25/2002 TOC - 10/716238 - DAVIS, ZINNA 10/716238 - Transmittal of N... Bib Data - 10/716238 - DAVIS Applications for Inventor: BACON, EDWARD

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edAN Version 1.3.1 - ZINNA DAVIS (65429) Art Unit: 1625 - Applications for inventor: BACON, EDWARD

File Edit View Preferences Tools Messaging Window Help

Application #:

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/831229	6689043	150	07/23/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
	09/855228	6492396	150	05/15/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	09/880011	6632176	150	05/17/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
10/009576		041	08/27/2002	BACON, EDWARD	Iodine-containing radioactive sources	
	10/014645	6670358	150	10/26/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	10/067645		160	02/07/2002	BACON, EDWARD	Contrast media
10/105144		161	03/25/2002	BACON, EDWARD	Down pipe filter	
10/286988		030	11/01/2002	BACON, EDWARD	Light imaging contrast agents	
10/452398		030	06/02/2003	BACON, EDWARD	Products and methods	
10/639815		030	08/12/2003	BACON, EDWARD	Enhanced radiation therapy	
10/702942		041	11/06/2003	BACON, EDWARD	Products and methods for brachytherapy	
10/716238		030	11/18/2003	BACON, EDWARD	Substituted thioacetamides	
	60/268283		159	02/13/2001	BACON, EDWARD	Novel sulfur-containing carboxamides

Docket: ZINNA DAVIS - 05/25/... TOC - 10/716238 - DAVIS, ZIN... \*10716238 - Transmittal of N... Bib Data - 10/716238 - DAVIS... Applications for Inventor: BAC...

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eDAN Version 1.3.1 - ZINNA DAVIS (65429) Art Unit: 1625 - Applications for inventor: BACON, EDWARD

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Application #:

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/831228	6689043	150	07/23/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
	09/655228	8492398	150	05/16/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	09/860011	6632176	150	05/17/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
10/009576			041	08/27/2002	BACON, EDWARD	Iodine-containing radioactive sources
	10/014645	6670358	150	10/26/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	10/067545		160	02/07/2002	BACON, EDWARD	Contrast media
10/105144			161	03/25/2002	BACON, EDWARD	Down pipe filter
10/286988			030	11/01/2002	BACON, EDWARD	Light imaging contrast agents
10/452398			030	06/02/2003	BACON, EDWARD	Products and methods
10/639915			030	08/12/2003	BACON, EDWARD	Enhanced radiation therapy
10/702942			041	11/06/2003	BACON, EDWARD	Products and methods for brachytherapy
10/716238			030	11/18/2003	BACON, EDWARD	Substituted thioacetamides
	60/268283		159	02/13/2001	BACON, EDWARD	Novel sulfur-containing carboxamides

Docket: ZINNA DAVIS - 05/25/... TOC: 10/716238 - DAVIS, ZIN... 10/716238 - Transmittal of N... Bib Data : 10/716238 - DAVIS Applications for inventor: BAC...

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Application #:

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/483776	6329377	150	01/18/2000	CHATTERJEE, SANKAR	Ketomethylene group-containing cysteine and serine protease inhibitors
	09/519979	6310057	150	03/07/2000	CHATTERJEE, SANKAR	Alpha-ketoamide multicatalytic protease inhibitors
	09/527540	6288231	150	03/16/2000	CHATTERJEE, SANKAR	Peptide-containing alpha-ketoamide cysteine and serine protease inhibitors
	09/850858		041	05/08/2001	CHATTERJEE, SANKAR	Novel multicyclic compounds and the use thereof
	09/855228	6492396	150	05/15/2001	CHATTERJEE, SANKAR	SUBSTITUTED THIOACETAMIDES
	09/879336	6703368	150	06/12/2001	CHATTERJEE, SANKAR	PEPTIDE-CONTAINING ALPHA-KETOAMIDE CYSTEINE AND SERINE PROTEASE INHIBITORS
	10/014645	6670358	150	10/26/2001	CHATTERJEE, SANKAR	SUBSTITUTED THIOACETAMIDES
	10/685923		041	10/14/2003	CHATTERJEE, SANKAR	Peptide-containing alpha-ketoamide cysteine and serine protease inhibitors
	10/716238		030	11/18/2003	CHATTERJEE, SANKAR	Substituted thioacetamides
	60/202847		159	05/09/2000	CHATTERJEE, SANKAR	Novel multicyclic compounds and the use thereof
	60/204789		159	05/18/2000	CHATTERJEE, SANKAR	Substituted thioacetamides
	60/268283		159	02/13/2001	CHATTERJEE, SANKAR	Novel sulfur-containing carboxamides
	60/495364		020	08/14/2003	CHATTERJEE, SANKAR	Proteasome inhibitors and methods of using the same
	60/495784		020	08/14/2003	CHATTERJEE, SANKAR	Proteasome inhibitors and methods of using the same

Docket: ZINNA DAVIS - 05/25/... TOC - 10/716238 - DAVIS, ZIN... \*10/716238 - Transmittal of N... Bib Data - 10/716238 - DAVIS... Applications for inventor: CHA...

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Application #:

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/650869		041	05/06/2001	DUNN, DEREK	Novel multicyclic compounds and the use thereof
	09/655228	6492396	150	05/15/2001	DUNN, DEREK	SUBSTITUTED THIOACETAMIDES
	10/014645	6670358	150	10/26/2001	DUNN, DEREK	SUBSTITUTED THIOACETAMIDES
	10/716238		030	11/18/2003	DUNN, DEREK	Substituted thioacetamides
	60/202947		159	05/09/2000	DUNN, DEREK	Novel multicyclic compounds and the use thereof
	60/204789		159	05/16/2000	DUNN, DEREK	Substituted thioacetamides
	60/268283		159	02/13/2001	DUNN, DEREK	Novel sulfur-containing carboxamides

Docket: ZINNA DAVIS - 05/25/... Bib Data - 10/716238 - DAVIS, ... Applications for inventor: DUNN, DEREK

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Application #:

Phx	App Num.	Patent Num.	Status	Date Filed	Inventor Name	Title
73	09/500849		095	02/10/2000	TRIPATHY, RABINDRAN	CYCLOC SUBSTITUTED FUSED PYRROLOCARBAZOLES AND ISOINDOLONES
	09/572160	6359130	150	05/17/2000	TRIPATHY, RABINDRAN	Bridged indanopyrrolocarbazoles
	09/702191	6455525	150	10/31/2000	TRIPATHY, RABINDRAN	HETEROCYCLIC SUBSTITUTED PYRAZOLONES
	10/014645	6670358	150	10/26/2001	TRIPATHY, RABINDRAN	SUBSTITUTED THIOACETAMIDES
6	10/225670		061	08/22/2002	TRIPATHY, RABINDRAN	Heterocyclic substituted pyrazolones
6	10/716238		030	11/18/2003	TRIPATHY, RABINDRAN	Substituted thioacetamides
6	10/755505		019	01/12/2004	TRIPATHY, RABINDRAN	Cyclic substituted fused pyrrolocarbazoles and isoindolones

Docket: ZINNA DAVIS - 05/25/2004 Bib Data - 10/716238 - DAVIS Applications for inventor: TRIPATHY, RABINDRANATH

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Application #

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/855228	6492396	150	05/15/2001	VAUGHT, JEFFRY	SUBSTITUTED THIOACETAMIDES
	10/014645	6670358	150	10/26/2001	VAUGHT, JEFFRY	SUBSTITUTED THIOACETAMIDES
10/716238			030	11/18/2003	VAUGHT, JEFFRY	Substituted thioacetamides
	60/469945		020	05/13/2003	VAUGHT, JEFFRY	Analeptic and antidepressant comb.
	60/471302		020	05/16/2003	VAUGHT, JEFFRY	Analeptic and drug combinations

Docket: ZINNA DAVIS - 05/25/2003 Bib Data - 10/716238 - DAVIS, ... Applications for inventor: VAU...

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